

PASSIVE AND WIRELESS DISPLACEMENT MEASURING DEVICE
USING PARALLEL SENSORS

ABSTRACT OF THE DISCLOSURE

A system that remotely measures displacement between two objects. A passive sensor is affixed to each object, such that the sensors are substantially parallel. Each
5 sensor has a permeable rod, a surrounding coil, and a tuning capacitor, and have substantially the same resonant frequency. When an interrogating device is placed near the sensors, the frequency responses of the sensors indicates their relative displacement and thus
10 the displacement between the objects.